INTERDRIATIONIAT	SEARCH REPORT
INICKNATIONAL	SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER						
IPC(7) : C12N 13/00; C12M 1/00						
US CL	: 435/173.6, 285.2; 204/643					
According to International Patent Classification (IPC) or to both national classification and IPC						
B. FIEL	DS SEARCHED					
Minimum do	cumentation searched (classification system followed b	y classification symbols)			
	35/173.6, 285.2; 204/643					
Dogumentatio	on searched other than minimum documentation to the	owtont that such docume	nto ora included i	a the fields searched		
Documentation	on searched other than infinition documentation to the	extent mat such docume	ins are included if	i die ficius scarencu		
Electronic da	ta base consulted during the international search (name	e of data base and, where	e practicable, sear	ch terms used)		
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C. DOC	UMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where a		nt neces and	Relevant to claim No.		
A	US 4,561,961 A (HOFMANN) 31 December 1985,	1-14				
A	05 4,561,961 A (HOPMANN) 31 DECEMBER 1985,	see description of figure	S 1-3.	1-14		
A	TIS 4 804 450 A (MOCHIZUKT et al.) 14 February	1080 see description of	fimres 1_4	1-14		
A	US 4,804,450 A (MOCHIZUKI et al.) 14 February 1989, see description of figures 1-4.			1-14		
Α	US 4,578,168 A (HOFMANN) 25 March 1986, see description of figures 1.		1-14			
	CO 4,570,100 A (MOI WARRING 25 March 1900, see description of figures 1.					
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Further	documents are listed in the continuation of Box C.	See patent fa	mily annex.			
• S ₁	pecial categories of cited documents:			rnational filing date or priority		
"A" document	defining the general state of the art which is not considered to be		conflict with the applications or and entire the conflict with the	ation but cited to understand the		
	lar relevance					
"E" eariler ap	plication or patent published on or after the international filing date			claimed invention cannot be red to involve an inventive step		
•			nent is taken alone	oo to thirotro at airciaire cap		
	which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y" document of par	rilmiar relevance: the c	claimed invention cannot be		
specified)		considered to in	wolve an inventive step	when the document is		
"O" document	referring to an oral disclosure, use, exhibition or other means		one or more other such o a person skilled in the	documents, such combination		
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	published prior to the international filing date but later than the ate claimed	"&" document mem	ber of the same patent f	family		
		Data of 11' of the		<u> </u>		
Date of the at	Date of the actual completion of the international search Date of mailing of the international search report					
30 March 200	30 March 2004 (30.03.2004) 21 APR 2004					
	ame and mailing address of the ISA/US Authorized officer					
	I Stop PCT, Attn: ISA/US	Robert Warden				
	Commissioner for Patents					
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	csimile No. (703) 305-3230					

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